

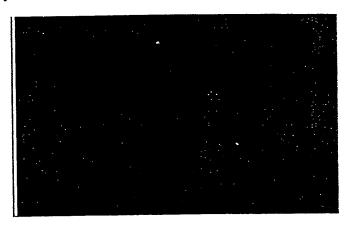
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5

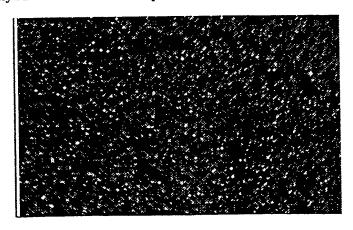
## FIG. 4a

Colony generation on tubes functionalised with oligonucleotide p57 (control). Results of visualisation of fluorescent microspheres. Hybridisation with probe detects 0.10 fmol/tube.



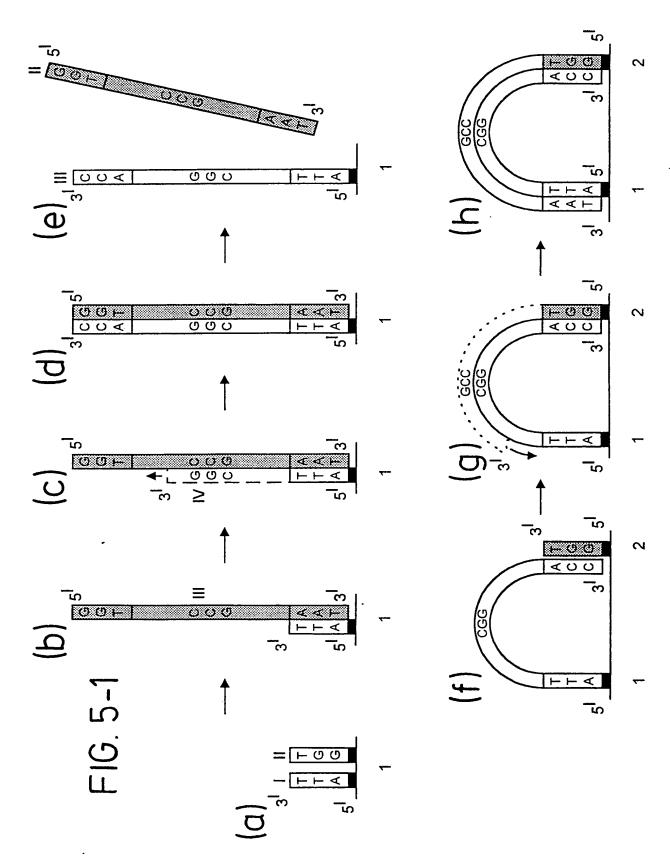
### FIG. 4b

Colony generation on tubes functionalised with oligonucleotide p58. Results of visualisation of fluorescent microspheres. Hybridisation with probe detects 6.2 fmol/tube

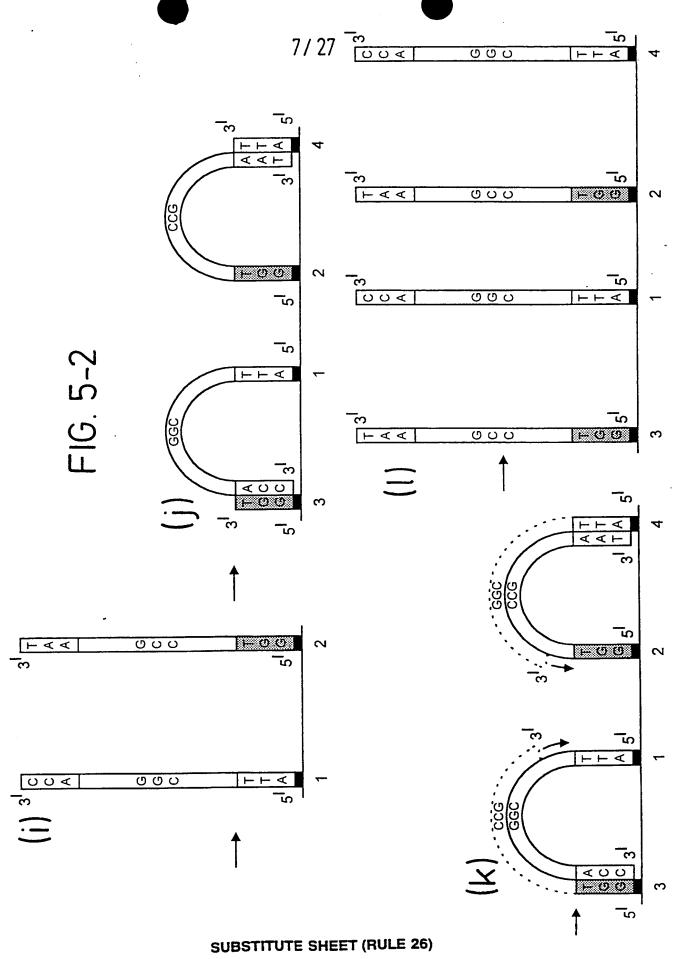


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6/27



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# FIG. 6(a)

DNA amplification - detection of colonies with DNA intercalating dyes



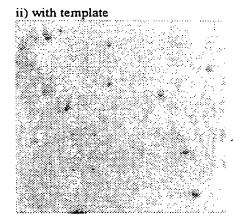
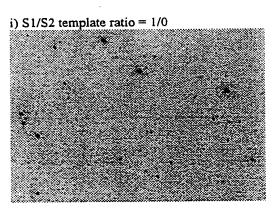
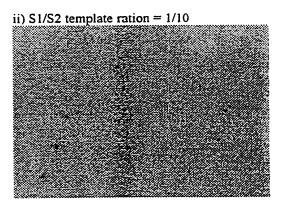


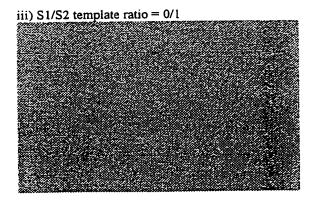


FIG. 6(b)

DNA amplification; detection of colonies by specific probe hybridisation

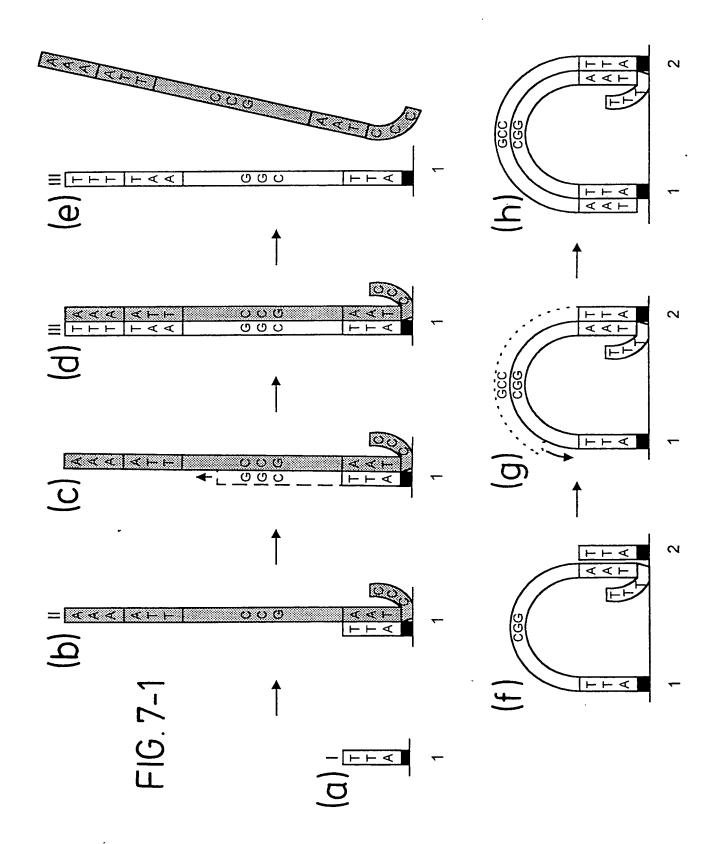






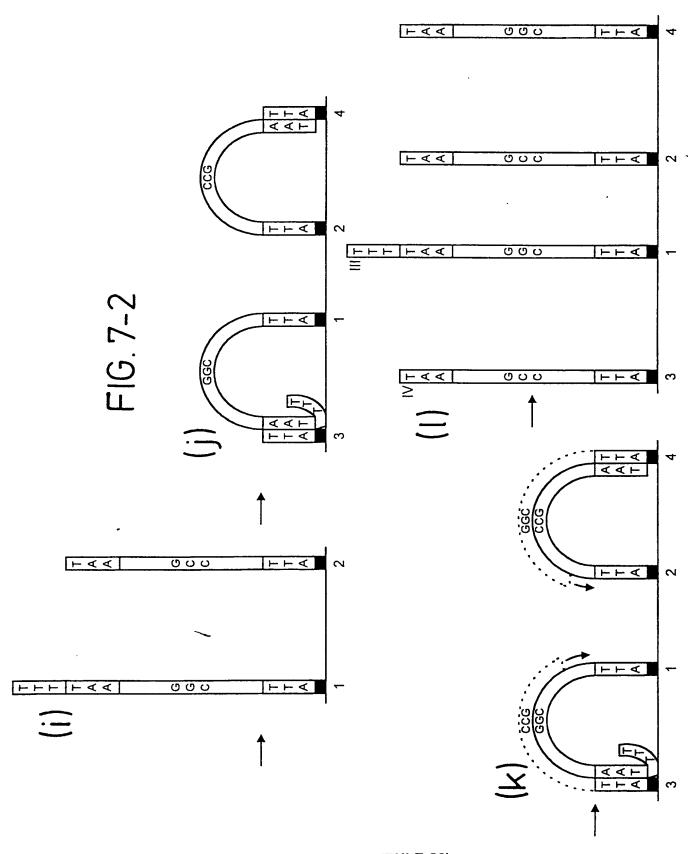
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9/27

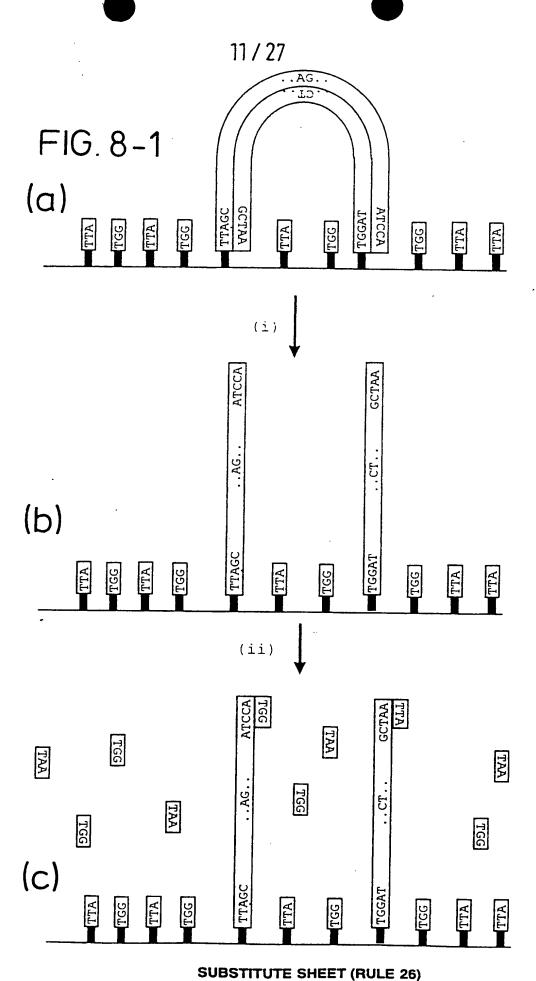


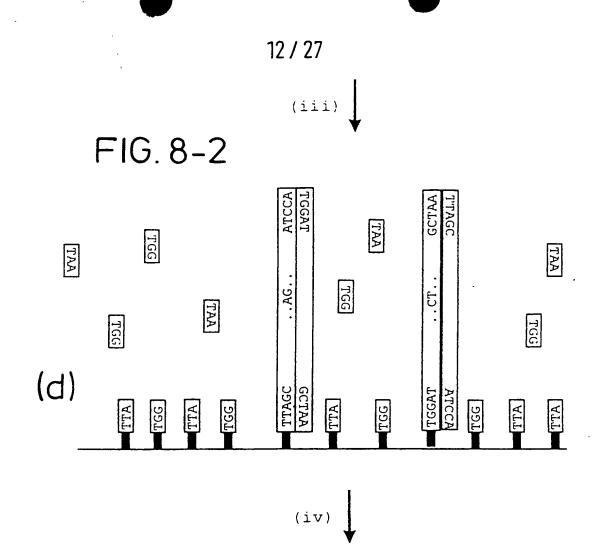
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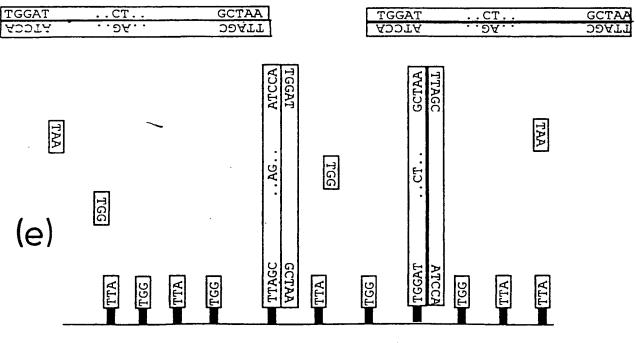
10 / 27



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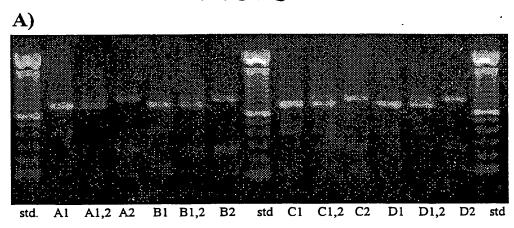




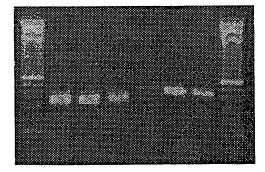


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FIG. 9

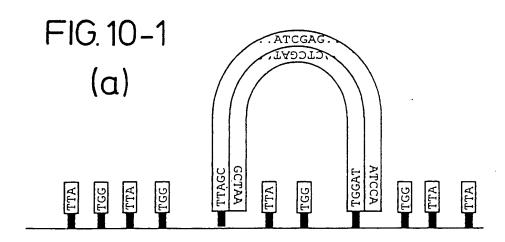


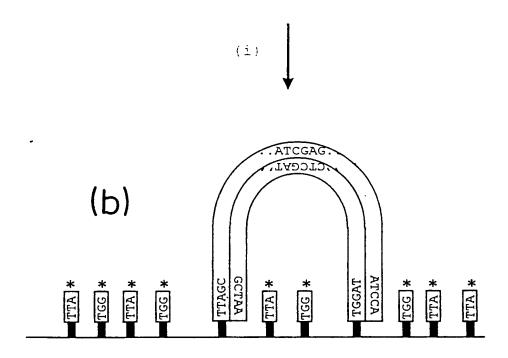
B)



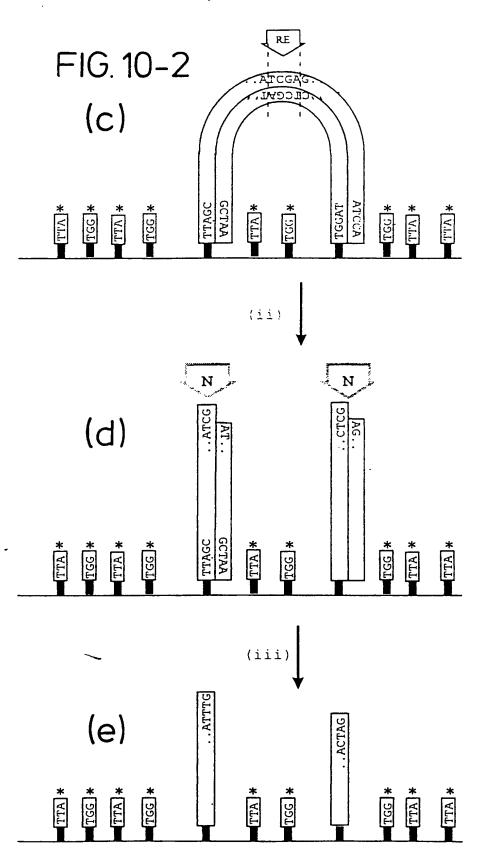
std. E1 E1,2 E2 F1 F1,2 F2 std

14/27



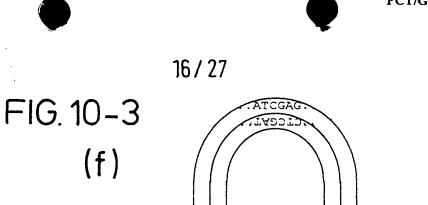






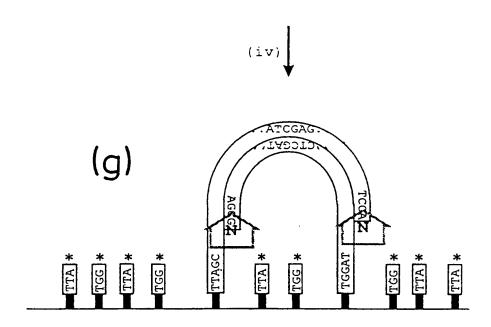
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TTA \*

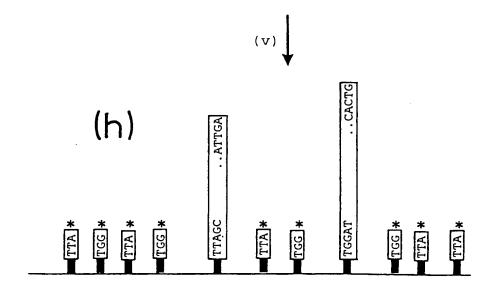


TGG \*

TGG \*

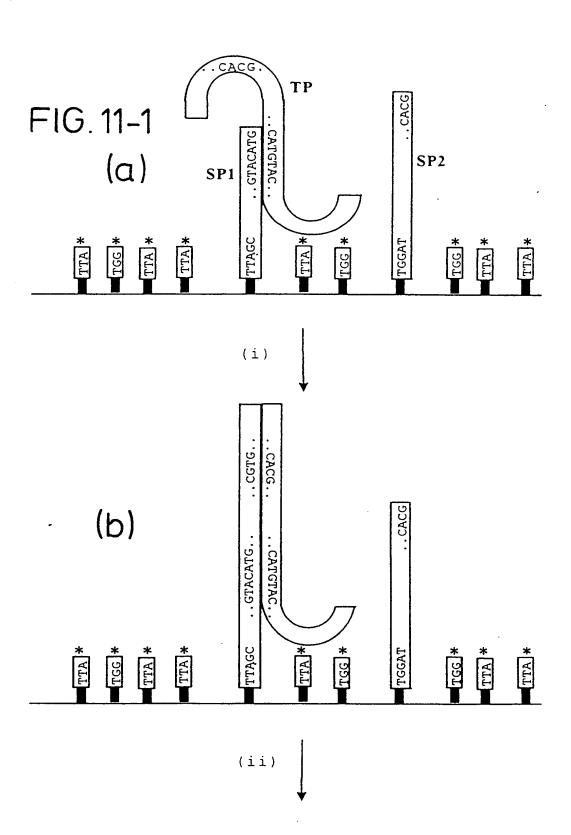


TGG \*

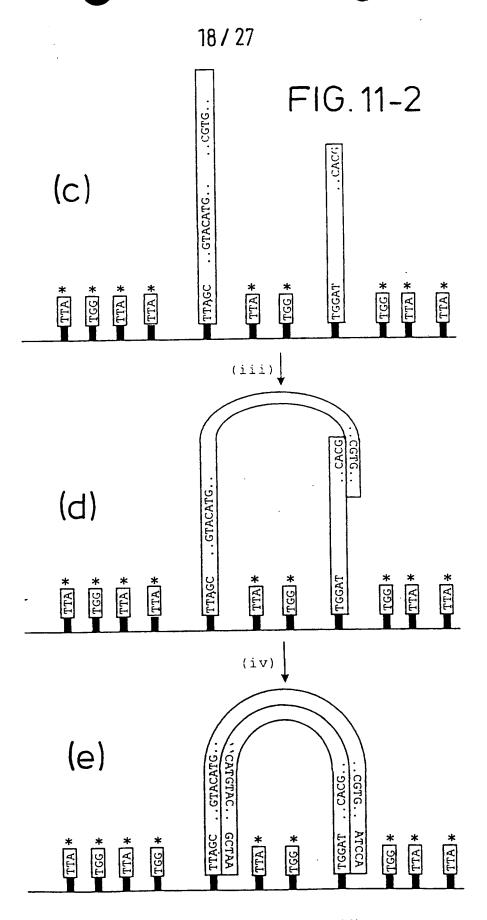


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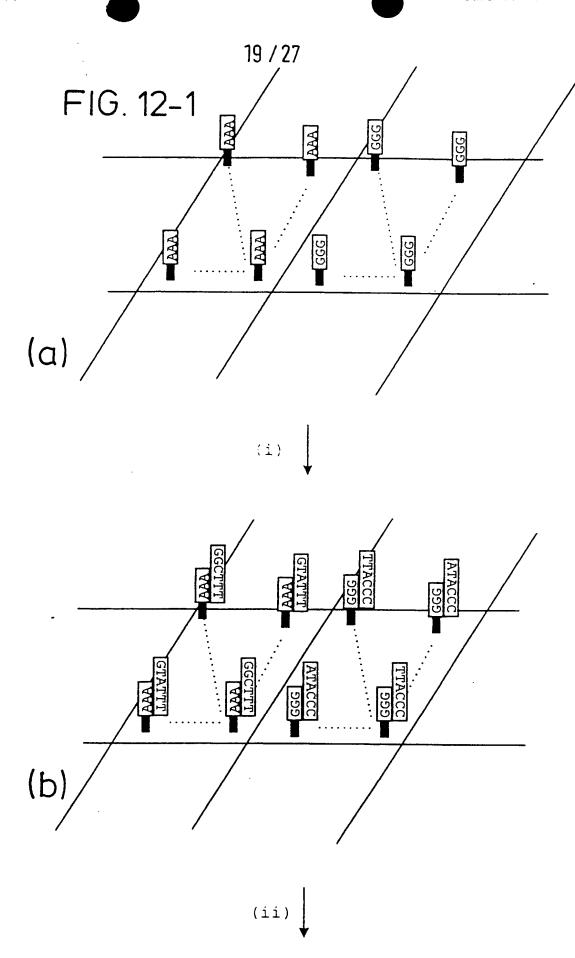
17/27



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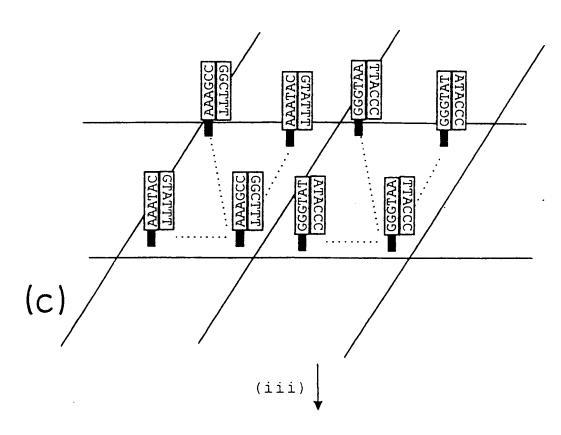


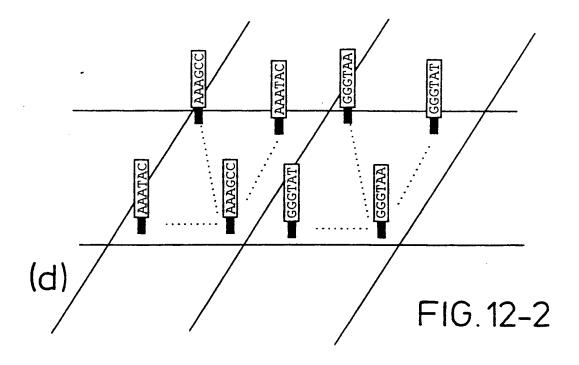
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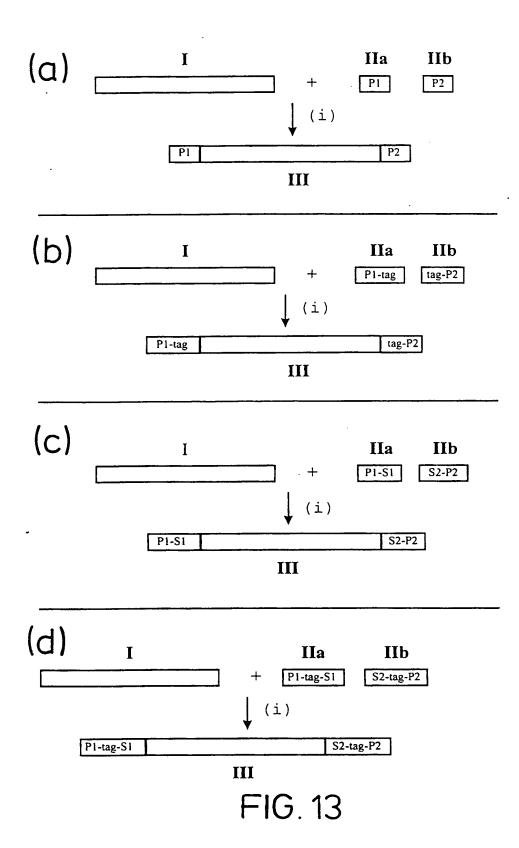
SUBSTITUTE SHEET (RULE 26)



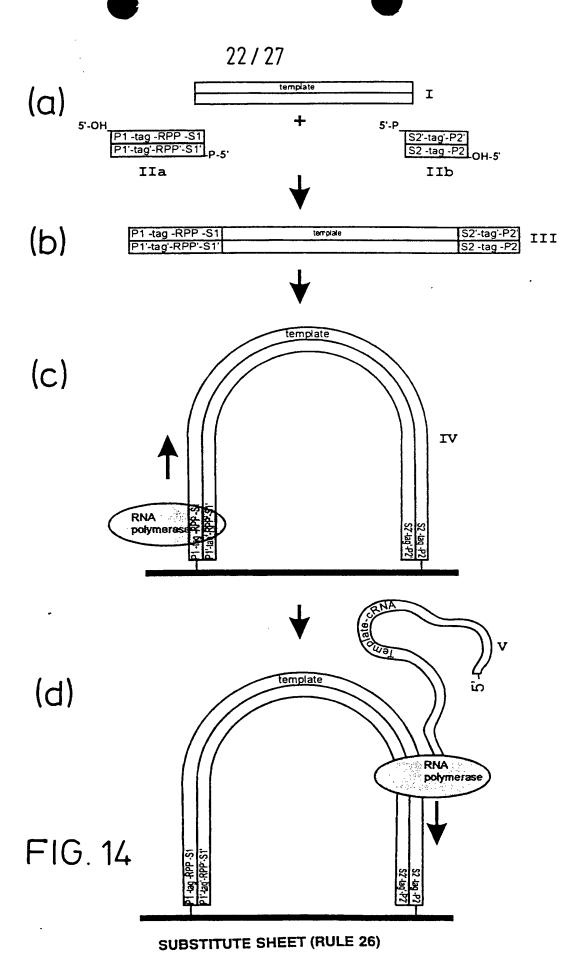




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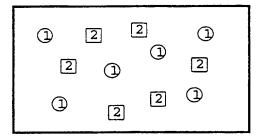
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#### 23 / 27 FIG. 15

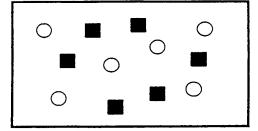
in situ Sequencing





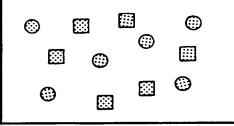
Two types of randomly arrayed DNA colonies

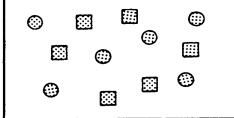
(b) step 1 add dGTP



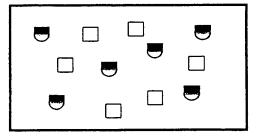
f)

(C) step 2 add dATP



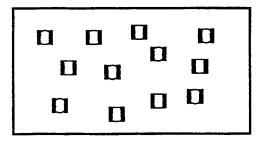


(**d**) step 3 add dTTP



G 

(e) step 4 add dCTP



DNA sequence:

type 1: ATC type 2: GAC

# 24/27 template I (a) tag'-P2' tag -P2 IIa IIb (b) III IV (c) (d) SP VI in situ sequencing FIG. 16 (e)

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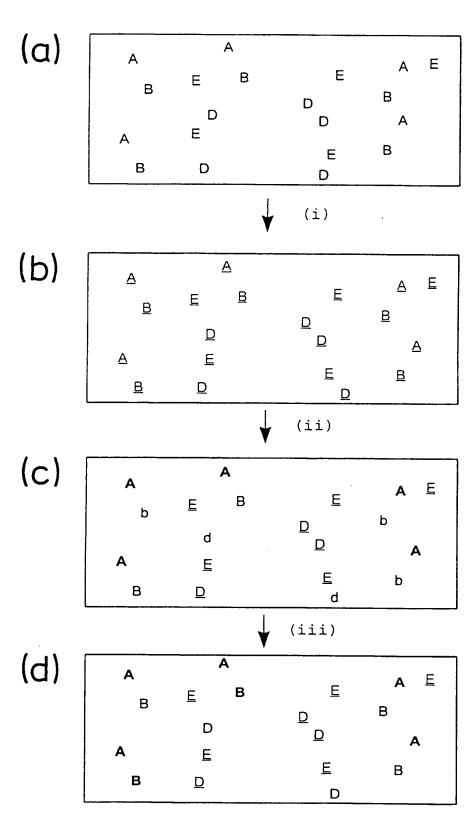
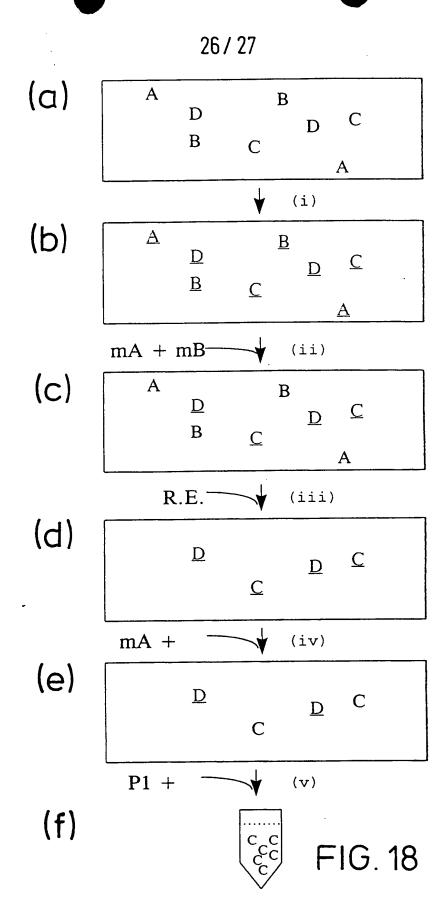
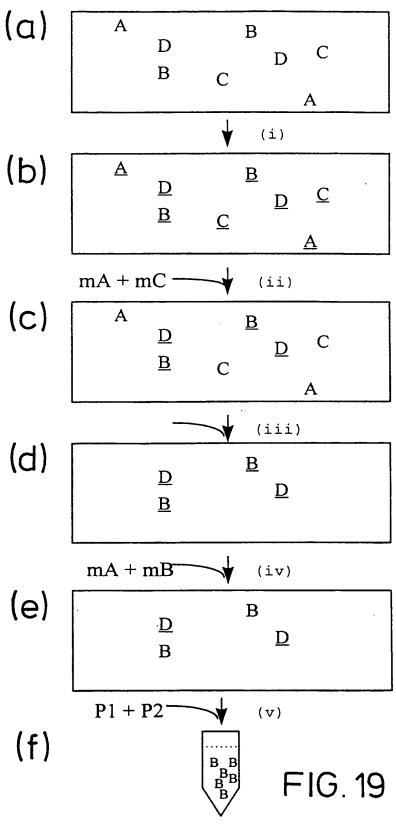


FIG. 17

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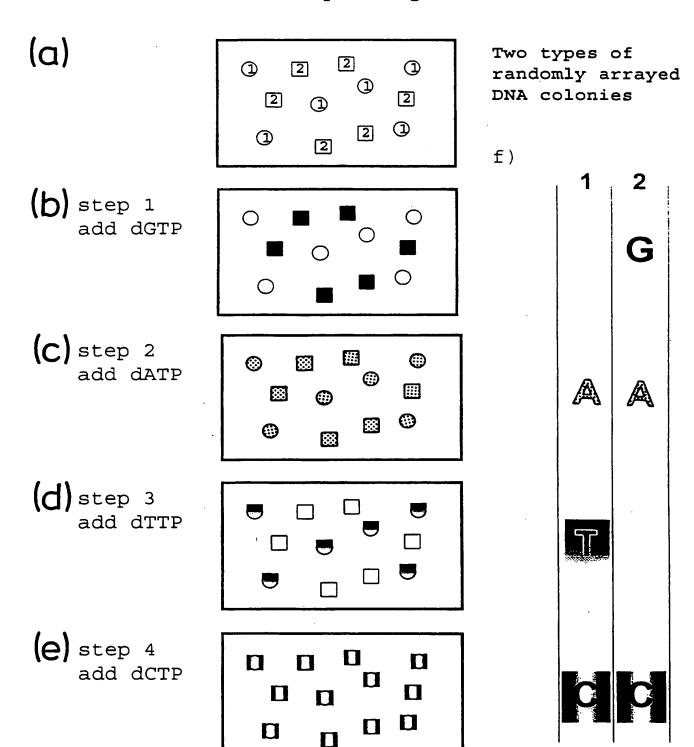


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23 / 27

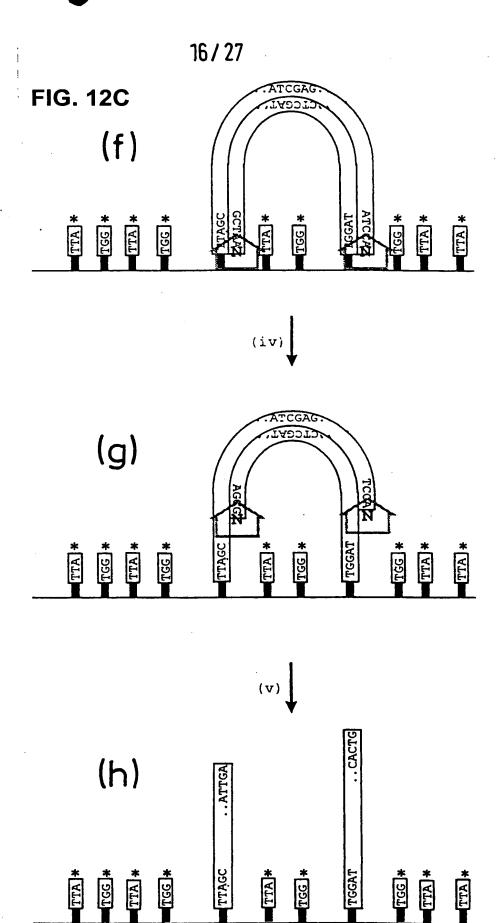
FIG. 17
in situ Sequencing



DNA sequence: type 1: ATC

type 2: GAC



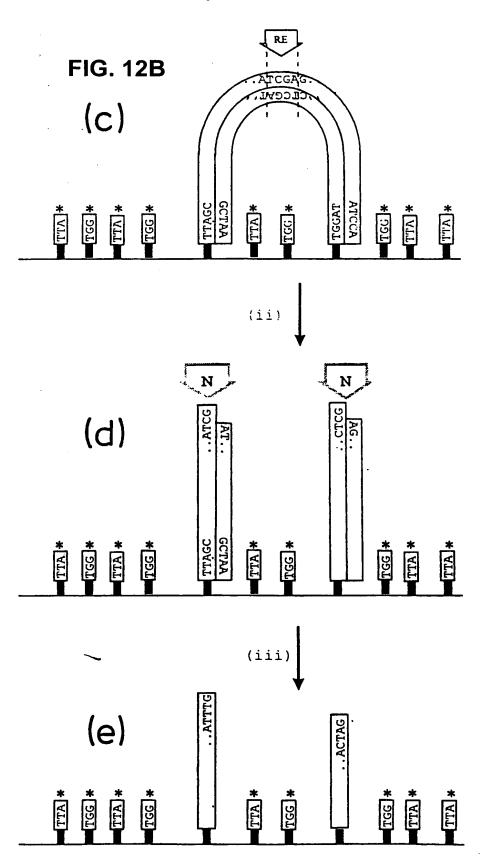


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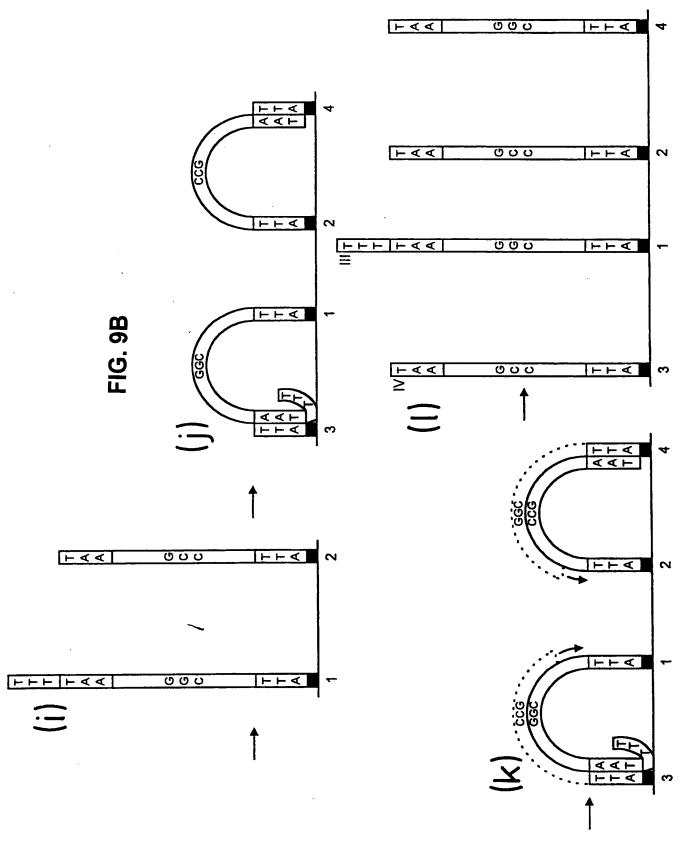


15 / 27



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10 / 27



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